

MAY 16 2002

K021031

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**Traditional 510(k) Premarket Notification  
EBI® XFIX® DFS® Rail System**

**510(k) Summary**

This 510(k) Summary for the EBI XFIX DFS Rail System is provided as required per Section 513(I)(3) of the Food, Drug and Cosmetic Act.

**1. Sponsor:** EBI, L.P.  
100 Interpace Parkway  
Parsippany, NJ 07054

**Contact Person:** Patricia Flood, RAC  
**Telephone:** (973) 299-9300, ext.3318

**Date Prepared:** March 28, 2002

**2. Proprietary Name:** EBI XFIX DFS Rail System

**Common Name:** External Fixation Device

**Classification Name:** Single Multiple Component Metallic Bone Fixation Appliances and Accessories, 21 CFR 888.3030.

**3. Predicate or Legally Marketed Devices:**

- EBI XFIX DFS Rail System (K991941, K000083, K010437)
- EBI XFIX Vision Fixation System (K993886, K014194, K020141)

**4. Description of Device:**

The system consists of fixation components and implantable bone screws. The EBI XFIX DFS Rail System is utilized in the following manner: bone screws are inserted through the patient's skin and soft tissue, and into the bone. The fixator frame of the EBI XFIX DFS Rail System is attached to the shanks of the bone screws. This submission is for the addition of a carbon fiber (radiolucent) Rail to the System.

**5. Intended Use:**

The EBI XFIX DFS Rail System is a unilateral external fixation device intended for use in the treatment of bone conditions including limb lengthening, corrective osteotomies, arthrodesis, fracture fixation, acute or gradual multiplanar correction, and other bone conditions amenable to treatment by use of the external fixation modality.

**6. Materials:**

The components of the System may be manufactured from materials such as titanium alloy, stainless steel, aluminum, carbon fiber reinforced epoxy, and Pyromet<sup>®</sup> 718.

**7. Comparison of the technological characteristics of the device to predicate devices:**

The proposed EBI XFIX DFS Rail System is substantially equivalent to the following predicate EBI devices:

EBI XFIX DFS Rail System (K991941, K000083, K010437)  
EBI XFIX Vision Fixation System (K993886, K014194, K020141)

- The proposed EBI XFIX DFS Rail System and the currently marketed EBI XFIX DFS Rail System are both indicated for the treatment of bone conditions, including limb lengthening, corrective osteotomies, arthrodesis, fracture fixation, acute or gradual multiplanar correction and other bone conditions amenable to treatment by use of the external fixation modality.
- The proposed EBI XFIX DFS Rail System, like the currently marketed EBI XFIX DFS Rail System and the EBI XFIX Vision Fixation System, is provided non-sterile.
- The components of the proposed EBI XFIX DFS Rail System are fabricated from the same materials as the components of the currently marketed EBI XFIX DFS Rail System and the EBI XFIX Vision Fixation System.
- There are no significant differences between the proposed EBI XFIX DFS Rail System and the currently marketed EBI XFIX DFS Rail System. It is substantially equivalent\* to the predicate device with regard to intended use, materials, function, and mechanical integrity.

\*Any statement made in conjunction with this submission regarding a determination of substantial equivalence to any other product is intended only to relate to whether the product can be lawfully marketed without pre-market approval or reclassification and is not intended to be interpreted as an admission or any other type of evidence in patent infringement litigation. [Establishment Registration and Premarket Notification Procedures, Final Regulation, Preamble, August 23, 1977, FR 42520 (Docket No. 76N-0355.)]



Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

MAY 16 2002

Mr. Jon Caparotta, RAC  
Manager, Regulatory Affairs  
EBI, L.P.  
100 Interpace Parkway  
Parsippany, NJ 07054

Re: K021031

Trade/Device Name: EBI® XFIX® DFS® Rail System

Regulation Number: 888.3030

Regulation Name: Single/multiple component metallic bone fixation appliances and accessories

Regulatory Class: II

Product Code: KTT

Dated: March 28, 2002

Received: March 29, 2002

Dear Mr. Caparotta:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 21 CFR Part 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>

Sincerely yours,

  
for Celia M. Witten, Ph.D., M.D.  
Director  
Division of General, Restorative  
and Neurological Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Statement of Indications for Use

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510(k) Number (if known): K021031

Device Name: EBI® XFIX® DFS® Rail System

Indications For Use:

The EBI XFIX DFS Rail System is a unilateral external fixation device intended for use in the treatment of bone conditions including limb lengthening, corrective osteotomies, arthrodesis, fracture fixation, acute or gradual multiplanar correction and other bone conditions amenable to treatment by use of the external fixation modality.

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

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Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use X  
(Per 21 CFR 801.109)

OR

Over-The-Counter Use  
(Optional Format 1-2-96)

Miriam C. Provost  
(Division Sign-Off)  
Division of General, Restorative  
and Neurological Devices

510(k) Number K021031